

SEQUENCE LISTING

<110> Board of Regents, The University of Texas System et al.
 <120> DUAL SPECIFICITY ANTIBODIES TO HUMAN PD-L1 AND PD-L2 AND METHODS
 OF USE THEREFOR
 <130> UTFC.P1338WO
 <140> Not yet assigned
 <141> 2019-03-14
 <150> 62/647,407
 <151> 2018-03-23
 <150> 62/755,408
 <151> 2018-11-02
 <160> 101
 <170> PatentIn version 3.5
 <210> 1
 <211> 290
 <212> PRT
 <213> Homo sapiens
 <400> 1

Met Arg Ile Phe Ala Val Phe Ile Phe Met Thr Tyr Trp His Leu Leu
 1 5 10 15

Asn Ala Phe Thr Val Thr Val Pro Lys Asp Leu Tyr Val Val Glu Tyr
 20 25 30

Gly Ser Asn Met Thr Ile Glu Cys Lys Phe Pro Val Glu Lys Gln Leu
 35 40 45

Asp Leu Ala Ala Leu Ile Val Tyr Trp Glu Met Glu Asp Lys Asn Ile
 50 55 60

Ile Gln Phe Val His Gly Glu Glu Asp Leu Lys Val Gln His Ser Ser
 65 70 75 80

Tyr Arg Gln Arg Ala Arg Leu Leu Lys Asp Gln² Leu Ser Leu Gly Asn
85 90 95

Ala Ala Leu Gln Ile Thr Asp Val Lys Leu Gln Asp Ala Gly Val Tyr
100 105 110

Arg Cys Met Ile Ser Tyr Gly Gly Ala Asp Tyr Lys Arg Ile Thr Val
115 120 125

Lys Val Asn Ala Pro Tyr Asn Lys Ile Asn Gln Arg Ile Leu Val Val
130 135 140

Asp Pro Val Thr Ser Glu His Glu Leu Thr Cys Gln Ala Glu Gly Tyr
145 150 155 160

Pro Lys Ala Glu Val Ile Trp Thr Ser Ser Asp His Gln Val Leu Ser
165 170 175

Gly Lys Thr Thr Thr Thr Asn Ser Lys Arg Glu Glu Lys Leu Phe Asn
180 185 190

Val Thr Ser Thr Leu Arg Ile Asn Thr Thr Thr Asn Glu Ile Phe Tyr
195 200 205

Cys Thr Phe Arg Arg Leu Asp Pro Glu Glu Asn His Thr Ala Glu Leu
210 215 220

Val Ile Pro Glu Leu Pro Leu Ala His Pro Pro Asn Glu Arg Thr His
225 230 235 240

Leu Val Ile Leu Gly Ala Ile Leu Leu Cys Leu Gly Val Ala Leu Thr
245 250 255

Phe Ile Phe Arg Leu Arg Lys Gly Arg Met Met Asp Val Lys Lys Cys
260 265 270

Gly Ile Gln Asp Thr Asn Ser Lys Lys Gln Ser Asp Thr His Leu Glu

275

280

285

Glu Thr
290

<210> 2
<211> 273
<212> PRT
<213> Homo sapiens

<400> 2

Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln
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Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile
20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser
35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn
50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu
65 70 75 80

Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp
85 90 95

Glu Gly Gln Tyr Gln Cys Ile Ile Ile Tyr Gly Val Ala Trp Asp Tyr
100 105 110

Lys Tyr Leu Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr
115 120 125

His Ile Leu Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln
130 135 140

Ala Thr Gly Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val
 145 150 155 160

Pro Ala Asn Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val
 165 170 175

Thr Ser Val Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys
 180 185 190

Val Phe Trp Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp
 195 200 205

Leu Gln Ser Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His
 210 215 220

Ile Phe Ile Pro Phe Cys Ile Ile Ala Phe Ile Phe Ile Ala Thr Val
 225 230 235 240

Ile Ala Leu Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp
 245 250 255

Thr Thr Lys Arg Pro Val Thr Thr Thr Lys Arg Glu Val Asn Ser Ala
 260 265 270

Ile

<210> 3

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<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

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tcctgtgcag cgtctggatt caccttcgat gagtatggca tgcactgggt ccgccaggct 120

ccaggcaagg ggctggagtg ggtggcagtt atagggatatg atggactgaa taaatactat 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatac acagcctgag agccgaggac acggcgggtg actactgcgc cagagctgga 300
atagaataca gctacgccta tactgattac tggggacagg gtacattggt caccgtctcc 360
tca 363

<210> 4
<211> 327
<212> DNA
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cctggccagg ctcccaggct cctcatctat ggtgcatcca ccaggaaaac tggcatccca 180
gacaggttca gtggcagtggt gtctgggaca gacttcactc tcaccatcag cagactggag 240
cctgaagatt ttgcagtgtg ttactgtctg cagttcggat ggtggcctcc taggactttc 300
ggcggaggga ccaaggtgga gatcaaa 327

<210> 5
<211> 363
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

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tcctgtgcag cgtctggatt caccttcgat gagtatggca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atagggatatg atggactgaa taaatactat 180

gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatga acagcctgag agccgaggac acggcggtgt actactgcgc cagagctgga 300
 atagaataca gctacgccta tactgattac tggggacagg gtacattggt caccgtctcc 360
 tca 363

<210> 6
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<220>
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 ctctcctgca gggccagtaa cagtgttgtc agcagctact tagcctggta ccagcagaaa 120
 cctggccagg ctcccaggct cctcatctat ggtgcagcca gcagggccaa cggcatccca 180
 gacaggttca gtggcagtggt gtctgggaca gacttcactc tcaccatcag cagactggag 240
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 ggcgagggga ccaagggtgga gatcaaaa 327

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 <211> 363
 <212> DNA
 <213> Artificial sequence

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 tcctgtgcag cgtctggatt caccttcagt gcgtatctta tgcactgggt ccgccaggct 120
 ccaggcaagg ggctggagtg ggtggcagct ataggttatg atggaatgaa taaatactat 180
 gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatga acagcctgag agccgaggac acggcggtgt actactgcgc cagagctgga 300

atagaataca gctacgccta tactgattac tggggacagg gtacattggt caccgtctcc 360
tca 363

<210> 8
<211> 327
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 8
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ctctcctgca gggccagtca gttcgtttac agcagcgact tagcctggta ccagcagaaa 120
cctggccagg ctcccaggct cctcatctat ggtgcatccg ccagggccgc cggcatccca 180
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240
cctgaagatt ttgcagtgta ttactgtatg cagttcggat ggtggcctcc taggactttc 300
ggcggaggga ccaaggttga gatcaaa 327

<210> 9
<211> 363
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

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tcctgtgcag cgtctggatt caccttcagt gcgtatctta tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagct ataggttatg atggaatgaa taaatactat 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agccgaggac acggcggtgt actactgcgc cagagctgga 300
atagaataca gctacgccta tactgattac tggggacagg gtacattggt caccgtctcc 360

tca

363

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<211> 327

<212> DNA

<213> Artificial sequence

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<223> Synthetic oligonucleotide

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ctctcctgca gggccagtca cagtgttgtc agcagctact tagcctggta ccagcagaaa 120

cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggaaga cggcatccca 180

gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240

cctgaagatt ttgcagtgtg ttactgtgtg cagttcggat ggtggcctcc taggactttc 300

ggcggaggga ccaagggtga gatcaaaa 327

<210> 11

<211> 360

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 11

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acctgtgctg tttacgggtg atcattatct ggttatcctt ggtcttggat tcgtcaacca 120

ccaggcaaag gattggagtg gatcggtgag acagacgtgt caggctggac tgactacaat 180

ccaagtttaa aatccagggt tactatctcc gtagacacgt ccaagaacca gttctccctg 240

aagctgagtt ctgtgaccgc cgcagacacg gcggtgtact actgcgccag agacggcaga 300

aggatgggta ccccttcatt cgacatatgg ggccagggta caatgggtcac cgtctcctca 360

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<220>

<223> Synthetic oligonucleotide

<400> 12

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atcacttgct gggcgagtc gggatttagc agctggtag cctggtagtca gcagaaacca      120
gggaaagccc ctaagctcct gatctatgct gcatcaagtt tgcaaagtgg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct      240
gaagattttg caacttatta ctgtcagcag tacgtctact tccctcctac ttttggcgga      300
gggaccaagg ttgagatcaa a                                          321

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<210> 13

<211> 357

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 13

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tcctgcaagg cttctggagg caccttcagc agctgggtga tcagctgggt gcgacaggcc      120
cctggacaag ggcttgagtg gatgggaggg atcatcccta tcctgggtac agcacggtag      180
gcacagaagt tccagggcag agtcacgatt accgcggacg aatccacgag cacagcctac      240
atggagctga gcagcctgag atctgaggac acggcgggtgt actactgcgc cagagtgtac      300
agagctgctt cttggtttga tccctgggga cagggtacat tggtcaccgt ctctca          357

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<210> 14

<211> 318

<212> DNA

<213> Artificial sequence

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<223> Synthetic oligonucleotide

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 atcacttgcc aggcgagtca ggacattagc aactatttaa attggtatca gcagaaacca 120
 gggaaagccc ctaagctcct gatctacgat gcatccaatt tggaaacagg ggtcccatca 180
 aggttcagtg gaagtggatc tgggacagat ttactttca ccatcagcag cctgcagcct 240
 gaagatattg caacatatta ctgtcagcag cccttccacc tcatcacttt tggcggaggg 300
 accaagggtg agatcaaa 318

<210> 15
 <211> 121
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 15

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Glu Tyr
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ala Val Ile Gly Tyr Asp Gly Leu Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ala Gly Ile Glu Tyr Ser Tyr Ala Tyr Thr Asp Tyr Trp Gly
100 105 110 11

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 16
<211> 109
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic amino acid

<400> 16

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Phe Val Tyr Ser Ser
20 25 30

Asp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Thr Arg Lys Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Leu Gln Phe Gly Trp Trp Pro
85 90 95

Pro Arg Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 17
<211> 121
<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 17

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Glu Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Gly Tyr Asp Gly Leu Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ala Gly Ile Glu Tyr Ser Tyr Ala Tyr Thr Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 18

<211> 109

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 18

13
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Asn Ser Val Val Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ala Ser Arg Ala Asn Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Val Gln Phe Gly Trp Trp Pro
85 90 95

Pro Arg Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 19
<211> 121
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic amino acid

<400> 19

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Ile Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
20 25 30

Leu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Ala Ile Gly Tyr Asp Gly Met Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ala Gly Ile Glu Tyr Ser Tyr Ala Tyr Thr Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 20
 <211> 109
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 20

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Phe Val Tyr Ser Ser
 20 25 30

Asp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Ala Arg Ala Ala Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Phe Gly Trp Trp Pro
 85 90 95

Pro Arg Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 21
 <211> 121
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 21

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Ile Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
 20 25 30

Leu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ala Ala Ile Gly Tyr Asp Gly Met Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ala Gly Ile Glu Tyr Ser Tyr Ala Tyr Thr Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser

115

120

<210> 22
 <211> 109
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 22

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser His Ser Val Val Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Glu Asp Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Val Gln Phe Gly Trp Trp Pro
 85 90 95

Pro Arg Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 23
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 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 23

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Leu Ser Gly Tyr
 20 25 30

Pro Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Glu Thr Asp Val Ser Gly Trp Thr Asp Tyr Asn Pro Ser Leu Lys
 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile Trp Gly Gln
 100 105 110

Gly Thr Met Val Thr Val Ser Ser
 115 120

<210> 24

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 24

Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp

20 25 18 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Val Tyr Phe Pro Pro
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 25
 <211> 119
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 25

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
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 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Trp
 20 25 30
 Leu Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Gly Ile Ile Pro Ile Leu Gly Thr Ala Arg Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80 19

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Tyr Arg Ala Ala Ser Trp Phe Asp Pro Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 26
<211> 106
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic amino acid

<400> 26

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Pro Phe His Leu Ile Thr
85 90 95

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

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<220>
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<400> 27

Phe Thr Phe Asp Glu Tyr Gly Met His
 1 5

<210> 28
 <211> 17
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 28

Val Ile Gly Tyr Asp Gly Leu Asn Lys Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15

Gly

<210> 29
 <211> 14
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 29

Ala Arg Ala Gly Ile Glu Tyr Ser Tyr Ala Tyr Thr Asp Tyr
 1 5 10

<210> 30
 <211> 9
 <212> PRT
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<220>
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<400> 30

Phe Thr Phe Asp Glu Tyr Gly Met His
 1 5

<210> 31
 <211> 17
 <212> PRT
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<220>
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<400> 31

Val Ile Gly Tyr Asp Gly Leu Asn Lys Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15

Gly

<210> 32
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<220>
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<400> 32

Ala Arg Ala Gly Ile Glu Tyr Ser Tyr Ala Tyr Thr Asp Tyr
 1 5 10

<210> 33

<211> 9
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<220>
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<400> 33

Phe Thr Phe Ser Ala Tyr Leu Met His
 1 5

<210> 34
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<220>
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<400> 34

Ala Ile Gly Tyr Asp Gly Met Asn Lys Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15

Gly

<210> 35
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<400> 35

Ala Arg Ala Gly Ile Glu Tyr Ser Tyr Ala Tyr Thr Asp Tyr
 1 5 10

<210> 36
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<223> Synthetic amino acid

<400> 36

Phe Thr Phe Ser Ala Tyr Leu Met His
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<210> 37

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<400> 37

Ala Ile Gly Tyr Asp Gly Met Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 38

<211> 14

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<220>

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<400> 38

Ala Arg Ala Gly Ile Glu Tyr Ser Tyr Ala Tyr Thr Asp Tyr
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<400> 39

Gly Ser Leu Ser Gly Tyr Pro Trp Ser
1 5

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<212> PRT

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<223> Synthetic amino acid

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<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 41

Ala Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile
1 5 10

<210> 42

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 42

Gly Thr Phe Ser Ser Trp Leu Ile Ser
1 5

<210> 43
 <211> 17
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 43

Gly	Ile	Ile	Pro	Ile	Leu	Gly	Thr	Ala	Arg	Tyr	Ala	Gln	Lys	Phe	Gln
1				5					10					15	

Gly

<210> 44
 <211> 12
 <212> PRT
 <213> Artificial sequence

<220>
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<400> 44

Ala	Arg	Val	Tyr	Arg	Ala	Ala	Ser	Trp	Phe	Asp	Pro
1				5				10			

<210> 45
 <211> 12
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<220>
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<400> 45

Arg	Ala	Ser	Gln	Phe	Val	Tyr	Ser	Ser	Asp	Leu	Ala
1				5					10		

<210> 46
 <211> 7
 <212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 46

Gly Ala Ser Thr Arg Lys Thr
1 5

<210> 47

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 47

Leu Gln Phe Gly Trp Trp Pro Pro Arg Thr
1 5 10

<210> 48

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 48

Arg Ala Ser Asn Ser Val Val Ser Ser Tyr Leu Ala
1 5 10

<210> 49

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 49

Gly Ala Ala Ser Arg Ala Asn
1 5

<210> 50
<211> 10
<212> PRT
<213> Artificial sequence

<220>
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<400> 50

Val Gln Phe Gly Trp Trp Pro Pro Arg Thr
1 5 10

<210> 51
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic amino acid

<400> 51

Arg Ala Ser Gln Phe Val Tyr Ser Ser Asp Leu Ala
1 5 10

<210> 52
<211> 7
<212> PRT
<213> Artificial sequence

<220>
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<400> 52

Gly Ala Ser Ala Arg Ala Ala
1 5

<210> 53
<211> 10
<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 53

Met	Gln	Phe	Gly	Trp	Trp	Pro	Pro	Arg	Thr
1				5					10

<210> 54

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 54

Arg	Ala	Ser	His	Ser	Val	Val	Ser	Ser	Tyr	Leu	Ala
1				5						10	

<210> 55

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 55

Gly	Ala	Ser	Ser	Arg	Glu	Asp
1				5		

<210> 56

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 56

Val Gln Phe Gly Trp Trp Pro Pro Arg Thr
 1 5 10

<210> 57
 <211> 11
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 57

Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala
 1 5 10

<210> 58
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 58

Ala Ala Ser Ser Leu Gln Ser
 1 5

<210> 59
 <211> 9
 <212> PRT
 <213> Artificial sequence

<220>
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<400> 59

Gln Gln Tyr Val Tyr Phe Pro Pro Thr
 1 5

<210> 60
 <211> 11
 <212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 60

Gln	Ala	Ser	Gln	Asp	Ile	Ser	Asn	Tyr	Leu	Asn
1				5					10	

<210> 61

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 61

Asp	Ala	Ser	Asn	Leu	Glu	Thr
1				5		

<210> 62

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 62

Gln	Gln	Pro	Phe	His	Leu	Ile	Thr
1				5			

<210> 63

<211> 120

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 63

31
Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Leu Ser Gly Tyr
20 25 30

Pro Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Glu Thr Asp Val Ser Gly Trp Thr Asp Tyr Asn Pro Ser Leu Lys
50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile Trp Gly Gln
100 105 110

Gly Thr Met Val Thr Val Ser Ser
115 120

<210> 64
<211> 107
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic amino acid

<400> 64

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Asn Ser Phe
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Asn Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Lys Ala Val Tyr Phe Pro Pro
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

$\langle 210 \rangle$	65
$\langle 211 \rangle$	107
$\langle 212 \rangle$	PRT
$\langle 213 \rangle$	Artificial sequence

<220>
<223> Synthetic amino acid

<400> 65

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Asn Phe
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Lys Ala Val Tyr Phe Pro Pro
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 66
 <211> 120
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 66

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Leu Ser Gly Tyr
 20 25 30

Pro Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Glu Thr Asp Val Ser Gly Trp Thr Asp Tyr Asn Pro Ser Leu Lys
 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile Trp Gly Gln
 100 105 110

Gly Thr Met Val Thr Val Ser Ser

115

120

<210> 67
 <211> 120
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 67

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Leu Ser Gly Tyr
 20 25 30

Pro Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Glu Thr Asp Val Ser Gly Trp Thr Asp Tyr Asn Pro Ser Leu Lys
 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile Trp Gly Gln
 100 105 110

Gly Thr Met Val Thr Val Ser Ser
 115 120

<210> 68
 <211> 107
 <212> PRT
 <213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 68

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val	Gly
1				5				10						15	

Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Asp	Ile	Ser	Ser	Phe
			20					25					30		

Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			

Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Asp	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				

Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75					80

Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Lys	Ser	Val	Tyr	Phe	Pro	Pro
				85					90					95	

Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105		

<210> 69

<211> 120

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 69

Gln	Val	Gln	Leu	Gln	Gln	Trp	Gly	Ala	Gly	Leu	Leu	Lys	Pro	Ser	Glu
1				5					10					15	

Thr	Leu	Ser	Leu	Thr	Cys	Ala	Val	Tyr	Gly	Gly	Ser	Leu	Ser	Gly	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20 25 36 30
 Pro Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Thr Asp Val Ser Gly Trp Thr Asp Tyr Asn Pro Ser Leu Lys
 50 55 60
 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
 65 70 75 80
 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile Trp Gly Gln
 100 105 110
 Gly Thr Met Val Thr Val Ser Ser
 115 120

<210> 70
 <211> 107
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 70

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Thr Phe
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Ala Ala Ser Ala Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60 37

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Arg Ala Val Tyr Phe Pro Pro
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 71

<211> 120

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 71

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Leu Ser Gly Tyr
20 25 30

Pro Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Glu Thr Asp Val Ser Gly Trp Thr Asp Tyr Asn Pro Ser Leu Lys
50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile Trp Gly Gln
 100 105 110

Gly Thr Met Val Thr Val Ser Ser
 115 120

<210> 72
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<220>
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<400> 72

Gly Ser Leu Ser Gly Tyr Pro Trp Ser
 1 5

<210> 73
 <211> 16
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<220>
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<400> 73

Glu Thr Asp Val Ser Gly Trp Thr Asp Tyr Asn Pro Ser Leu Lys Ser
 1 5 10 15

<210> 74
 <211> 14
 <212> PRT
 <213> Artificial sequence

<220>
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<400> 74

Ala Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile
 1 5 10

<210> 75
 <211> 9
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 75

Gly Ser Leu Ser Gly Tyr Pro Trp Ser
 1 5

<210> 76
 <211> 16
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 76

Glu Thr Asp Val Ser Gly Trp Thr Asp Tyr Asn Pro Ser Leu Lys Ser
 1 5 10 15

<210> 77
 <211> 14
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 77

Ala Arg Asp Gly Arg Arg Met Gly Thr Pro Ser Phe Asp Ile
 1 5 10

<210> 78
 <211> 9
 <212> PRT
 <213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 78

Gly	Ser	Leu	Ser	Gly	Tyr	Pro	Trp	Ser
1				5				

<210> 79

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 79

Glu	Thr	Asp	Val	Ser	Gly	Trp	Thr	Asp	Tyr	Asn	Pro	Ser	Leu	Lys	Ser
1				5					10					15	

<210> 80

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 80

Ala	Arg	Asp	Gly	Arg	Arg	Met	Gly	Thr	Pro	Ser	Phe	Asp	Ile
1				5					10				

<210> 81

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 81

Gly	Ser	Leu	Ser	Gly	Tyr	Pro	Trp	Ser
1				5				

<210> 82
 <211> 16
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 82

Glu	Thr	Asp	Val	Ser	Gly	Trp	Thr	Asp	Tyr	Asn	Pro	Ser	Leu	Lys	Ser
1				5					10					15	

<210> 83
 <211> 14
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 83

Ala	Arg	Asp	Gly	Arg	Arg	Met	Gly	Thr	Pro	Ser	Phe	Asp	Ile
1				5					10				

<210> 84
 <211> 9
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 84

Gly	Ser	Leu	Ser	Gly	Tyr	Pro	Trp	Ser
1				5				

<210> 85
 <211> 16
 <212> PRT
 <213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 85

Glu	Thr	Asp	Val	Ser	Gly	Trp	Thr	Asp	Tyr	Asn	Pro	Ser	Leu	Lys	Ser
1				5					10					15	

<210> 86

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 86

Ala	Arg	Asp	Gly	Arg	Arg	Met	Gly	Thr	Pro	Ser	Phe	Asp	Ile
1				5					10				

<210> 87

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 87

Arg	Ala	Ser	Gln	Gly	Ile	Asn	Ser	Phe	Leu	Ala
1				5					10	

<210> 88

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 88

Ala	Ala	Ser	Ser	Leu	Asn	Ser
1				5		

<210> 89
 <211> 9
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 89

Gln Lys Ala Val Tyr Phe Pro Pro Thr
 1 5

<210> 90
 <211> 11
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 90

Arg Ala Ser Gln Gly Ile Ser Asn Phe Leu Ala
 1 5 10

<210> 91
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
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<400> 91

Ala Ala Ser Ser Leu Gln Ser
 1 5

<210> 92
 <211> 9
 <212> PRT
 <213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 92

Gln Lys Ala Val Tyr Phe Pro Pro Thr
1 5

<210> 93

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 93

Arg Ala Ser Gln Asp Ile Ser Ser Phe Leu Ala
1 5 10

<210> 94

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 94

Ala Ala Ser Ser Leu Gln Asp
1 5

<210> 95

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 95

Gln Lys Ser Val Tyr Phe Pro Pro Thr
1 5

<210> 96
 <211> 11
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic amino acid

<400> 96

Arg Ala Ser Gln Gly Ile Ser Thr Phe Leu Ala
 1 5 10

<210> 97
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
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<400> 97

Ala Ala Ser Ala Leu His Ser
 1 5

<210> 98
 <211> 9
 <212> PRT
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<220>
 <223> Synthetic amino acid

<400> 98

Gln Arg Ala Val Tyr Phe Pro Pro Thr
 1 5

<210> 99
 <211> 11
 <212> PRT
 <213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 99

Arg	Ala	Ser	Lys	Gly	Ile	Ser	Ser	Phe	Leu	Ala
1				5					10	

<210> 100

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 100

Ala	Ala	Asp	Ser	Ile	Gln	Ser
1				5		

<210> 101

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic amino acid

<400> 101

Gln	Ser	Ala	Val	Tyr	Phe	Pro	Pro	Thr
1				5				